# CWA COMPLIANCE SAMPLING INSPECTION REPORT U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5

| Purpose:<br>Compliance Sampling Inspection   |                             |
|--|-----------------------------|
| Facility: R & S Farm Ex. 6 (Personal Privacy)  |                             |
| NPDES Permit Number:<br>No NPDES Permit  |                             |
| Date of Inspection:<br>March 10, 2020  |                             |
| EPA Representatives:<br>Cheryl Burdett, CAFO Program Manager<br>Burdett.cheryl@epa.gov | 312-886-1463                |
| Benjamin Atkinson, Agronomist<br>Atkinson.benjamin@epa.gov                             | 312-353-8243                |
| State Representatives:<br>Chris Lowell, IDEM<br>Matt Brown, IDEM                       |                             |
| Facility Representatives:  Ex. 6 (Personal Privacy), Owner/Operator                    | Ex. 6 (Personal Privacy)    |
| Inspector Signature:   |                             |
| Approver Signature:  |                             |
| Approver Title: <u>Acting Chief, Water Enforceme</u><br>Branch, Section 2              | nt and Compliance Assurance |

#### **BACKGROUND**

On March 10, 2020, at approximately 8:30 a.m., I arrived at R & S Farm in Wabash County, Indiana to conduct a Clean Water Act compliance inspection. I was joined by EPA inspector Ben Atkinson. We donned yellow rubber boots. Shortly after our arrival, inspectors from Indiana Department of Environmental Management (IDEM) arrived. We were met by Ex. 6 (Personal Privacy), Owner/Operator of R &S Farm to whom the EPA team presented their credentials. After presenting credentials to the Owner/Operator, the EPA team conducted their entry interview to explain the purpose for the inspection and EPA's authority to conduct inspections at Animal Feeding Operations. EPA's authority comes from Section 308 of the Clean Water Act. Ex. 6 (Personal Privacy) explained that he is a small operation with less than 300 cattle. I explained that we needed to conduct a walk-through of the facility to determine if there were significant areas of concern. The facility owner/operator stated that he probably will only have cattle for the next couple of months and does not plan to stay in business.

I explained that they had conducted overflights and had seen areas of concern that had the potential to discharge to waters of the United States. The owner/operator had stated that he was planning to transport heifers today and needed to be there at a certain time. I explained that they would need to conduct the walk-through at this time but could go through the checklist by phone at a later time. I explained that if a discharge was observed during the walk-through samples would need to be collected. I further explained that if samples were collected, EPA could collect split samples with R & S Farm. The owner/operator had stated that if samples were collected that the Facility would want split samples.

I stated that if, at any time, any of the information received or collected by EPA was construed as confidential business information (CBI) the Owner/Operator should let EPA know and they would identify it as CBI, and it would be handled as such. The Owner/Operator did not request any of the photos or information in the checklist to be marked as CBI.

#### **SITE INSPECTION**

**Table 1: Site Entry and Opening Conference** 

| Tubic It site Energ and opening conference      |  |
|---|--|
| Date/Arrival Time:                              | March 10, 2020.  |
| Temperature:                                    | 47 degrees F.  |
| Precipitation:                                  | It had rained within the last 24 hours, but not during the inspection. |
| Presented credentials?                          | 8:30 a.m.  |
| Credentials presented to whom and at what time? | Ex. 6 (Personal Privacy), Owner/Operator.                              |

The EPA team, IDEM, and the Owner/Operator started the walk-through of the production area at approximately 9:00 a.m. The walk-through started on the north side of R &S Farm.

We walked to the west on the north side of the facility toward the West Livestock Barn. On the north side of the West Livestock Barn, I observed an open pit attached to the west side of the West Livestock Barn overflowing into a crop field to the west (RIMG0002). I observed to the east of the West Livestock Barn on the north side of the East Livestock Barn used bedding and manure stocked outside of the barn and exposed to precipitation (RIMG0003).

We walked to the south side of the East Livestock Barn and I observed that the attached feedlot had manure and process wastewater flowing out of the feedlot and into the crop field to the east (RIMG0004). I also observed that the cows are fed outside the feedlot and the feed was exposed to precipitation. The stormwater that comes into contact with the feed and the manure within and outside the feedlot flows to the east into a crop field (RIMG0006). The runoff into the crop field flows to the southeast toward the roadside ditch. If it were to enter the roadside it would flow to the east through a culvert that flows under 1000 East to the south side of the road (RIMG0007 through RIMG0010).

We completed the walk-through of the north side and continued to the south side of R & S Farm. I observed the silage bunkers facing to the north on the south side of the facility (RIMG0011). Areas of the silage was exposed to precipitation and the leachate mixed with stormwater was flowing to the southwest. We continued to the east side of the silage bunkers to the Old Dairy Barn, which was partially collapsed, but still had heifers and steers within the barn (RIMG0012). The Old Dairy Barn had a concrete bottom pit attached to an open concrete area. The manure was observed flowing off the concrete and into the 1<sup>st</sup> stage waste storage structure (RIMG0013). I also observed that there was manure bypassing the 1st stage waste storage structure and flowing into the 2<sup>nd</sup> stage waste storage structure (RIMG0015).

Process wastewater was flowing to south along the west side of the blue silos. I observed an open manhole that was collecting the runoff (RIMG0016 and RIMG0017). The Owner/Operator stated that the manhole was collecting the runoff from the access road and process wastewater from the silage bunkers conveying the runoff through underground piping to a 10,000-gallon tank (RIMG0018). I asked the Owner/Operator what happens to the process wastewater and solids that are collected in the tank. He said the liquids are discharged out to the waste storage structures. I stated that we needed to walk-around the storage structures, but the Owner/Operator stated that the field was to muddy to walk through and that there was fence around the north side. I asked if we could go around the fence and the owner and operator stated that the fence ended on his neighbor's property. Mr. Atkinson stated that he could go under the fence on the R&S Farm and the Owner/Operator stated that it was okay to go under. Mr. Atkinson observed the following discharges on the south side of the fence during the inspection; overflow from the 2<sup>nd</sup> stage waste storage structure, discharge from the

10,000-gallon storage tank discharge pipe and a discharge from a field tile (RIMG0020 through RIMG0023). The discharges observed during the inspection flowed into Pony Creek at the time of the inspection (RIMG0024 through RIMG0028). The EPA team determined that samples needed to be collected to determine if pollutants were discharging into Pony Creek from these discharge points. I observed that there was an overflow from the 1st stage waste storage structure. The overflow from the 1st stage waste storage structure flowed into the crop field to the south. The EPA team followed the overflow through the crop field to the east toward Pony Creek. I observed that the overflow pooled prior to discharging into Pony Creek (RIMG0032 through RIMG0041). The EPA team, IDEM inspectors, and the Owner/Operator walked back to the cars to collect the equipment to conduct sampling. The EPA team at that time realized that they had locked their keys in the car. I explained to the Owner/Operator that we would need to wait for the locksmith and then would still need to collect samples, if the Owner/Operator had somewhere to go that we could collect the samples and be on our way. The Owner/Operator stated that he would wait and that he wanted to be there when we collected the samples. I recommended we take the time to go through the Region 5 CAFO Inspection Checklist.

The EPA team went through the Region 5 CAFO Inspection Checklist. We then waited for the locksmith, who came and unlocked the car door. The EPA team then prepared the sample bottles and went to collect the samples. The EPA team collected three samples along with the split samples (RIMG0049 through 50; RIMG0052 through RIMG0054; RIMG0062 and RIMG0063). Mr. Atkinson preserved all the samples and prepared the chain of custody which EPA provided to the Owner/Operator along with split samples.

After providing the Owner/Operator the samples and the chain of custody, I went through the exit briefing. I explained that after the results come back from the samples, I will complete the inspection report and provide a copy of the report to the Owner/Operator and to IDEM. The EPA team and IDEM inspectors exited the Facility at approximately 12:30 p.m.

The IDEM inspectors needed to collect samples upstream and downstream of the Facility. Mr. Atkinson took pictures of the upstream location, but due to holding times and laboratory times for the samples the EPA team did not have time to go with IDEM to the downstream location.

| If photographs or documents were taken, does the facility consider any to |  |                             | No |
|---|--|-----------------------------|----|
| be Confidential Business Inform   | nation (CBI)?                              |                             |    |
| Which information does the  | No information                             | on was identified by the    |    |
| facility consider to be CBI?  | Owner/Operator as confidential business    |                             |    |
|   | information at the time of the inspection. |                             |    |
| EPA vehicle parked in an approved   |  | Yes, according to the       |    |
| location.   |  | Owner/Operator.             |    |
| Location where EPA vehicle was parked?                                    |  | In the driveway west of the |    |
|   |  | Owner/Operator's residence. |    |
| Disposable boots worn?  | Yes.                                       |                             |    |

|  | Prior to the inspection, I e-mailed    |
|--|--|
|  | Indiana's State Veterinarian to ask if |
|  | there were any disease outbreaks for   |
| Other bio-security measures taken (state vet | dairy or cattle in Wabash County,      |
| contacted, etc.):                            | Indiana. I received confirmation       |
|  | from the Indiana's State Veterinarian  |
|  | that there were no outbreaks of cattle |
|  | diseases in the area.                  |

## 2.1 Records Review

## **Table 2: Documents**

| Checklist(s) Used             |
|-------------------------------|
| R5 CAFO Inspection Checklist  |
| Facility Documents Reviewed:  |
| Facility did not have an NMP. |

**Table 3: Facility Description** 

| Type of Animal                                 | Number of             | Capacity                     | Type of Confinement            |
|--|-----------------------|------------------------------|--------------------------------|
|  | Animals               |                              |                                |
| East Livestock                                 | 20 Heifers            | Unknown.                     | Barn with open feedlot         |
| Barn   |                       |                              | -                              |
| West Livestock                                 | 30 Heifers and        | Unknown.                     | Barn with open feedlot         |
| Barn   | Steer                 |                              | _                              |
| Old Dairy Barn                                 | 22 Heifers/           | Unknown.                     | Enclosed Barn                  |
| ·  | Steer                 |                              |                                |
| Pasture  | 17 beef cattle        | Unknown.                     | Pasture                        |
| Minimum Number                                 | r of Animals in pr    | evious 5 years:              | At the time of the inspection, |
|  |                       |                              | R & S Farm had                 |
|  |                       |                              | approximately 77 heifers and   |
|  |                       |                              | steers on-site, not including  |
|  |                       |                              | the cattle on pasture. This is |
|  |                       | the minimum the site has had |                                |
|  |                       |                              | in the last five years.        |
| Maximum Number of Animals in previous 5 years: |                       |                              | 120 -130 milking and dry       |
|  |                       |                              | cows and some heifers.         |
| <b>Number of Anima</b>                         | ls that are stabled   | l/confined                   | Currently, the facility has 22 |
| and/or fed/maintai                             | ined for 45 days o    | r more in                    | heifers and had some steer.    |
| previous 12 month                              | ıs:                   |                              |                                |
| <b>Amount of Liquid</b>                        | <b>Manure Generat</b> | ed per year:                 | Owner/Operator was not         |
|  |                       |                              | aware of how much liquid       |
|  |                       |                              | manure had been generated in   |
|  |                       |                              | a year.                        |
| Amount of Solid M                              | Ianure Generated      | l per year:                  | Owner/Operator was not         |
|  |                       |                              | aware of how much solid        |

|  | manure had been generated in          |
|--|---------------------------------------|
|  |                                       |
| Desa the facility have an NDDEC Dame!49              | a year.                               |
| Does the facility have an NPDES Permit?              | No.                                   |
| SIC or NAICS code:                                   | 0212.                                 |
| CAFO Designation/Defined Date (If a designated       | Prior to the inspection, R & S        |
| CAFO)  | Farm was not a CAFO.                  |
|  | During the inspection, I              |
|  | observed process wastewater           |
|  | discharging from two areas            |
|  | from the production area. The         |
|  | 10,000-gallon storage                 |
|  | discharge pipe and field tile         |
|  | merged and discharged into            |
|  | Pony Cree. I also observed            |
|  | the overflow from the 2 <sup>nd</sup> |
|  | stage waste storage structure         |
|  | discharging into Pony Creek.          |
| Do animals have direct access to WOUS?               | No, the animals are confined          |
|  | to barns and attached feedlots.       |
| Are crops, vegetation, forage growth, or post-       | Some of the beef cattle are           |
| harvest residues sustained in the normal growing     | kept on a pasture.                    |
| season over any portion of the lot or facility where |                                       |
| animals are kept?                                    |                                       |
| What is the area (acres) of the production area?     | Approximately 17 acres.               |
| What is the area (acres) of the pasture?             | 32 acres for the pasture, part        |
| ` ´ <b>-</b>   | of the land is rented from the        |
|  | Owner/Operator's neighbor.            |
| How many employees (not counting family              | 0                                     |
| members)?  |                                       |
| Other facilities under common ownership (name an     | d address): None.                     |

**Table 4: Livestock Waste Storage** 

| Type of               | Storage         | Type of  | Depth   | Last Time   | Amount of       | Days of         |
|-----------------------|-----------------|----------|---------|-------------|-----------------|-----------------|
| Storage               | Capacity        | Liner    | Markers | Waste was   | Waste           | Storage         |
|                       |                 |          | Present | Removed     | Removed         |                 |
| 1 <sup>st</sup> stage | No information  | Concrete | None    | No          | No              | No              |
| waste                 | was provided at | bottom   |         | information | information     | information     |
| storage               | the time of the |          |         | was         | was provided    | was provided    |
| structure             | inspection.     |          |         | provided at | at the time of  | at the time of  |
|                       |                 |          |         | the time of | the inspection. | the inspection. |
|                       |                 |          |         | the         |                 |                 |
|                       |                 |          |         | inspection. |                 |                 |
| 2 <sup>nd</sup> stage | No information  | Earthen  | None    | No          | No              | No              |
| waste                 | was provided at |          |         | information | information     | information     |
| storage               | the time of the |          |         | was         | was provided    | was provided    |
| structure             | inspection.     |          |         | provided at |                 |                 |

|  |                           |  |            | the time of                                     | at the time of      | at the time of  |
|--|---------------------------|--|------------|---|---------------------|-----------------|
|  |                           |  |            | the   | the inspection.     | the inspection. |
|  |                           |  |            | inspection.                                     | the hispection.     | the hispection. |
| Pit  | No information            | Concrete                                   | None       | Last Fall.                                      | As conditions       | No              |
| attached                                       | was provided at           | bottom                                     | TVOILC     | Last I all.                                     | area suitable       | information     |
| to the   | the time of the           | DOTTOIN                                    |            |   | for land            | was provided    |
| West   | inspection.               |  |            |   | application.        | at the time of  |
| Feedlot  | mspection.                |  |            |   | аррпсанон.          | the inspection. |
| 10,000-  | 10,000 gallons            | No   | None       | No  | No                  | 1-2 days of     |
| gallon   | 10,000 ganons             | information                                | TVOILE     | information                                     | information         | storage.        |
| storage  |                           | was  |            | was   | was provided        | storage.        |
| tank   |                           | provided at                                |            | provided at                                     | at the time of      |                 |
| tank   |                           | the time of                                |            | the time of                                     | the inspection.     |                 |
|  |                           | the  |            | the   | the hispection.     |                 |
|  |                           | inspection.                                |            | inspection.                                     |                     |                 |
| Total stor                                     | age for all manur         |  | ıctures    |   | ion was provided    | at the time of  |
| for the year                                   | _                         | e storage stra                             |            | the inspectio                                   | _                   |                 |
|  | t site of storage st      | ructure desig                              | n?         | _   | does not documer    | nt or keep      |
|  | · ·· ·- ·- · · · · · · ·- |  | , •        | records.  |                     | I               |
| Is manure                                      | stored for the sh         | ort term?                                  |            | Yes. There is a pit on the west of the West     |                     |                 |
| If yes, describe where it is stored, how it is |                           | Livestock Barn and a 10,000-gallon storage |            |   |                     |                 |
|  | nd where it drain         |  |            | tank that is used to collect process wastewater |                     |                 |
|  |                           |  |            | ed to discharge th                              |                     |                 |
| Are records kept of the level of manure in the |                           | No.  |            |   |                     |                 |
| storage structures?                            |                           |  |            |   |                     |                 |
| Whon was                                       | the last time a st        | orago structu                              | ro was     | Fall The an                                     | nount of manure a   | and/or process  |
|  | ither partially or        | _  | ii e was   |   | was not recorded.   | ilid/of process |
|  | ount of manure or         |  | tewater    |   | Operator was not    | able to provide |
|  | ved the last time t       | _  |            |   | tion during the ins | *               |
|  | ed, either partiall       |  |            | tills illioillat                                | ion during the mi   | spection.       |
|  | ility personnel in        |  |            | No.   |                     |                 |
|  | rsion devices?            | spect and nee                              | precorus   | 110.  |                     |                 |
|  | ility personnel in        | spect and kee                              | n records  | No.   |                     |                 |
|  | oundments?                | P  | F          |   |                     |                 |
|  | ility personnel in        | spect and kee                              | p records  | No.   |                     |                 |
|  | vater lines?              |  | •          |   |                     |                 |
| Do the fac                                     | ility personnel pe        | rform routin                               | e visual   | No inspectio                                    | ns or records are   | kept.           |
|  | s and keep record         |  |            |   |                     | -               |
| area?  |                           |  |            |   |                     |                 |
| Does the w                                     | vaste storage syst        | em have a ma                               | naged      | All storage s                                   | tructures were eit  | her overflowing |
| outfall or                                     | discharge point?          |  |            | or dischargin                                   | ng, but they are no | ot managed      |
|  |                           |  |            | outfalls or ov                                  | verflows.           |                 |
| Has the fa                                     | cility had any do         | cumented disc                              | charges of | No discharge                                    | es have been reco   | rded by the     |
| livestock v                                    | vaste to surface w        | ater in the pa                             | ast year?  | Owner/Oper                                      | ator.               |                 |

| Are there safety devices installed around any  | Yes, there is a fence on the north side of the                      |
|--|---|
| manure storage ponds? (Barriers at the end of  | 1 <sup>st</sup> and 2 <sup>nd</sup> stage waste storage structures. |
| manure push off platforms, fences around pond, | Fence around the West Livestock Barn                                |
| signage.)                                      | Feedlot.  |
| Additional Information:                        | No, additional information was asked or                             |
|  | provided by the Owner/Operator of R & S                             |
|  | Farm.   |

|   | Tailli.                                       |
|---|---|
|   |   |
| Table 5: Livestock Waste Management                                   | 1 1: 1 - 6 - 4 4h - 6 21:4                    |
| Describe the way manure is collected and                              |   |
| The manure in the pits and in the feedlots and                        | 1   |
| suitable. The manure in the 1 <sup>st</sup> stage waste               | storage structure is collected and applied as |
| needed and when ground is suitable.                                   |   |
| Describe the way used bedding is collected                            | d and disposed of at the facility:            |
| The facility scrapes the barns and land appl                          | ies as necessary.                             |
|   | No records are kept                           |
| Are mortality records kept?   | No records are kept                           |
| Describe the way mortalities are manage                               | d at the facility:                            |
| Mortalities are composted.  |   |
|   |   |
| What type of method is used to provide                                | Tanks are filled with water for the heifers   |
| drinking water for the animals?                                       | and steers.                                   |
| G   |   |
| Describe the way willed drinking water                                |   |
| Describe the way spilled drinking water in Collected with the manure. | s conected and disposed of at the facility:   |
|   |   |
| Describe the way mist cooling water is co                             | llected and disposed of at the facility:      |
| None.   |   |
|   | ow used or spilled chemicals are collected    |
| And disposed of at the facility:  None.                               |   |
|   |   |
| Describe the way water that has been use                              | ed to wash/flush barns are collected and      |
| disposed of at the facility:  |   |
| The barns are manually scraped.                                       |   |
| Describe where water comes from that is                               | used to clean and/or flush. (Wells, city,     |
| etc.)   |   |
| No water is used to clean the barns.                                  |   |
| Describe the way feed is contained and he                             | ow runoff from feed is collected and          |
| disposed of at the facility:  |   |
| V   |   |

| Leachate from open feed and silage bunkers are collected from the 10,000-gallon tank |  |  |  |
|--|--|--|--|
| and process wastewater from the collection is discharged through the discharge pipe. |  |  |  |
| The process wastewater from the discharge pipe discharges into Pony Creek.           |  |  |  |
| If a dairy, describe how process wastewater from the plate cooler water is           |  |  |  |
| collected and disposed of at the facility:   |  |  |  |
| Not applicable.  |  |  |  |
| If a dairy, describe how process wastewater from the cleaning of the milking         |  |  |  |
| parlor is collected and disposed of at the facility:                                 |  |  |  |
| Not applicable.  |  |  |  |
|  |  |  |  |
| If a dairy, describe how process wastewater from the cleaning of the milk tanks is   |  |  |  |
| disposed of at the facility:   |  |  |  |
| Not applicable.  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| If a dairy, how many times per day are cows milked?  Not applicable.                 |  |  |  |

Table 6: Land Application and Disposal of Manure and Process Wastewater

| Does the facility perform and keep records of the   | No.  |
|---|--|
| manure testing?  When was the last time a sample was taken of the manure and/or process wastewater? | Not applicable.  |
| Describe the process to take the manure and/or process wastewater sample.                           | Not applicable.  |
| Number of acres available for land application:   | Information was not collected on the number of acres available for land application.                   |
| Are land application records kept?  | No land application records have been kept.  |
| Who applies the manure and process wastewater to the fields?  | Information was not collected on who is land applying the manure and process wastewater to the fields. |
| Are weather conditions at time of application kept? (24 before – 24 after)                          | No weather records are kept.   |
| Does the facility perform and keep records of the soil testing?                                     | This is being done by the Fertilizer Plant.  |
| Is manure transferred off-site to another party?  | No information was collected on whether manure was transferred to another party.                       |
| Are manure transfer records maintained?   | No.  |

| Do facility personnel perform periodic inspection | No. |
|---|-----|
| of land application equipment?                    |     |

**Table 7: Receiving Surface Waters** 

| Table 7: Receiving Surface Waters  |  |
|--|--|
| Describe the surface flow pathways:  |  |
| Discharges from the production area at R & perennial waterway that flows into the Eel I traditional navigable waterway.              |  |
| How many months out of the year is   | The National Hydrology Data identified   |
| there flow in the nearest surface water pathway:   | Pony Creek as a Perennial Waterway.  |
| Are there any storm water pathways entering the facility?  | During the walk-around I did not observe stormwater pathways entering the production area. |
| Are there any clean water ponds on site?   | No, there are no clean water ponds located on the production area of R & S Farm.           |
| What is the name of the first waterway that is identified as a Traditional Navigable Water (TNW) for surface flow from the facility? | Wabash River.  |
| Is the surface water pathway nearest to the facility considered to be ephemeral, intermittent or perennial?                          | Perennial.   |
| Has the surface water pathway nearest to the facility been assessed for water quality?   | The branch of Pony Creek by R&S Farm has not been assessed.                                |

**Table 8: Nutrient Management Plan** 

| Table 6. Nutricit Management 1     |  |  |
|------------------------------------|--|--|
| NMP on site?                       | R & S Farm was small facility and did not have a |  |
|                                    | Nutrient Management Plan, so there was no        |  |
|                                    | information documented on how manure or fields   |  |
|                                    | were managed at the site.                        |  |
| <b>Date NMP Submitted:</b>         | There was no information available during the    |  |
|                                    | inspection to review.                            |  |
| Planner Name/Company:              | There was no information available during the    |  |
|                                    | inspection to review.                            |  |
| Date that the NMP was last         | There was no information available during the    |  |
| updated:                           | inspection to review.                            |  |
| Storage Description:               | There was no information available during the    |  |
| _                                  | inspection to review.                            |  |
| <b>Amount of Manure Generated:</b> | There was no information available during the    |  |
|                                    | inspection to review.                            |  |
| Capacity of Storage:               | There was no information available during the    |  |
| _                                  | inspection to review.                            |  |

| 1  | •   |
|--|---|
| <b>Duration of Storage:</b>  | There was no information available during the |
|  | inspection to review.                         |
| Amount of Spreadable Land:   | There was no information available during the |
| _  | inspection to review.                         |
| <b>Mortality Management Plan:</b>  | There was no information available during the |
|  | inspection to review.                         |
| <b>Clean Water Diversion System:</b>   | There was no information available during the |
| , and the second | inspection to review.                         |
| <b>Direct Contact Prevention</b>   | There was no information available during the |
| Plan:  | inspection to review.                         |
| Chemical Management Plan:  | There was no information available during the |
|  | inspection to review.                         |
| <b>Conservation Practices:</b>   | There was no information available during the |
|  | inspection to review.                         |
| <b>Manure Testing Protocols:</b>   | There was no information available during the |
|  | inspection to review.                         |
| <b>Soil Testing Protocols:</b>   | There was no information available during the |
|  | inspection to review.                         |
| <b>Land Application Protocols:</b>   | There was no information available during the |
|  | inspection to review.                         |
| Additional NMP comments:   | There was no information available during the |
|  | inspection to review.                         |
| Does the NMP reflect the   | Not applicable.                               |
| current operational  |   |
| characteristics?   |   |
| Are the number of acres  | Not applicable.                               |
| owned/leased consistent with   |   |
| what is listed in the NMP?   |   |
|  |   |

**Table 9: Land Application Records (details of the records reviewed)** 

| dulid Application Records (details          | ,                                  |
|---|------------------------------------|
| Fields available for application this year: | There was no information available |
|   | during the inspection to review.   |
| Timing limitation on fields:                | There was no information available |
|   | during the inspection to review.   |
| Annual manure analysis for N and P          | There was no information available |
|   | during the inspection to review.   |
| Soil tests for fields (for P) less than 5   | There was no information available |
| years old?                                  | during the inspection to review.   |
| Inspection of land application              | There was no information available |
| equipment documentation:                    | during the inspection to review.   |
| Crop:                                       | There was no information available |
|   | during the inspection to review.   |
| Application Rate:                           | There was no information available |
|   | during the inspection to review.   |

| Crop Yield Goals:                        | There was no information available |
|--|------------------------------------|
|  | during the inspection to review.   |
| Timing of land application:              | There was no information available |
|  | during the inspection to review.   |
| Method of land application:              | There was no information available |
|  | during the inspection to review.   |
| Additional land application information: | There was no information available |
|  | during the inspection to review.   |

Table 10: Facility Records (details of the records reviewed)

| Diversion devices: Impoundments: There was no information available during the inspection to review.  Depth marker observations: There was no information available during the inspection to review.  Water Lines: There was no information available during the inspection to review.  Mortality handling: There was no information available during the inspection to review.  Storage Structure Design: There was no information available during the inspection to review.  Overflow records: There was no information available during the inspection to review.  Crop Yields: There was no information available during the inspection to review.  Crop Yields: There was no information available during the inspection to review.  Land Application Dates: There was no information available during the inspection to review.  Weather Conditions at time of application (24 before-24 after): There was no information available during the inspection to review.  Test Methods for Manure Testing: There was no information available during the inspection to review.  Test Methods for Soil Testing: There was no information available during the inspection to review.  There was no information available during the inspection to review.  There was no information available during the inspection to review.  There was no information available during the inspection to review.  Calculations of N and P applied: There was no information available during the inspection to review.  Application Equipment Inspection There was no information available during the inspection to review.  There was no information available during the inspection to review.  There was no information available during the inspection to review.  There was no information available during the inspection to review.  There was no information available during the inspection to review. | able 10: Facility Records (details of the records reviewed) |   |  |
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| Application Equipment Inspection         There was no information available during   |   | the inspection to review.                 |  |
| <b>Dates:</b> the inspection to review.  | Application Equipment Inspection                            | There was no information available during |  |
|  |   | the inspection to review.                 |  |

**Table 11: NPDES Permit** 

| Type of permit (General, individual)     | R & S Farm did not have a state or federal |
|--|--|
|  | permit.                                    |
| Is a copy of the permit on site?         | NA.  |
| Date that the permit was issued:         | NA.  |
| Date that the permit will expire:        | NA.  |
| Permitted number of animal units:        | NA.  |
| Does the permit contain a compliance     | NA.  |
| schedule? If yes, provide a detailed     |  |
| description of the requirements and      |  |
| the status.                              |  |
| Have there been any changes made to      | NA.  |
| the production area since the permit     |  |
| was issued? If yes, provide a detailed   |  |
| description.                             |  |
| Are there any practices in the permit    | NA.  |
| that are not being done at the facility? |  |
| (Records kept, inspections performed,    |  |
| etc.)                                    |  |

#### 2.3 Closing Conference and Post-Inspection

The EPA team, IDEM, and the Operator/Owner walked back to the north side of R&S Farm, where the EPA team and IDEM parked their cars, and explained the areas of concern to the Owner/Operator, including:

- 1. Overflow from the West Livestock Barn open pit into crop field to the west.
- 2. Overflow from the open feedlot attached to the East Livestock Barn into the crop field to the east, which during precipitation event flows to the southeast into the roadside ditch on the north side of 1000 East. The flow in the dithc flows to the east to a culvert that conveys the flow to the south side of 1000 East.
- 3. Overflow from the 1<sup>st</sup> stage waste storage structure that flows through crop field to the south on the south side of the Facility and flows to the west toward Pony Creek.
- 4. Overflow from the 2<sup>nd</sup> stage waste storage structure was discharging into Pony Creek.
- 5. The 10-000-gallon collection tank was discharging through the discharge pipe into Pony Creek.

I explained that it will take approximately 70 days to get the inspection report which inludes the sampling results. I provided a business card with my contact information in case the Owner/Operator had any questions while waiting for the report.

| Were specific Areas of Concern discussed with facility personnel? Yes. |                 |  |
|--|-----------------|--|
| Who were the Areas of Concern discussed with?                          |                 |  |
| The Owner/Operator   |                 |  |
| Exit Time:   | 12:30 p.m.      |  |
| Disposable Boots Left at Facility?                                     | Yes.            |  |
| Vehicle Washed after leaving facility?                                 | Yes.            |  |
| Date vehicle was washed:   | March 10, 2020. |  |

**Table 12: Sampling Information** 

| Table 12: Sampling Information                                  |                          |
|---|--------------------------|
| Were samples taken?   | Yes.                     |
| Were samples split with facility?                               | Yes.                     |
| Number of sample locations taken?                               | Three.                   |
| Was a trip blank created (done prior to entering the facility)? | Yes.                     |
| Identify which sample is the trip blank.                        | B01.                     |
| Were field duplicate samples taken (1 duplicate per 20          | No.                      |
| samples)?   |                          |
| Identify which sample(s) is/are the field duplicate(s)          | NA.                      |
| Were equipment blanks taken (if more than one type of           | No.                      |
| equipment was used to collect samples)?                         |                          |
| Identify which samples were equipment blanks.                   | NA.                      |
| Location where samples were preserved:                          | R & S Farm               |
| Name of people involved with sample preservation:               | Ben Atkinson             |
| Were samples sent to a lab?                                     | Fecal Coliform           |
|   | samples were             |
|   | hand-delivered           |
|   | to Microbac              |
|   | Laboratory in            |
|   | Merrillville,            |
|   | Indiana on               |
|   | March 10, 2020.          |
|   | The nutrient and         |
|   | general                  |
|   | chemistry                |
|   | samples were             |
|   | hand-delivered           |
|   | to Region 5,             |
|   | Analytical               |
|   | Services Branch          |
|   | Regional                 |
|   | Laboratory on            |
|   | March 11 <sup>th</sup> , |
| Name/Address of shipping location:                              | 2002 Oapplicable.        |
| Date the samples were dropped off at ASB in Chicago, Illinois.  | March 11, 2020.          |

| Did all inspectors involved with the sampling sign the chain of custody? | Yes.      |
|--|-----------|
| Weather conditions at the time of sample collection:                     | Overcast. |

## Name of Laboratory where nutrients and general chemistry samples were taken:

Region 5, Analytical Services Branch located at 536 South Clark Street Chicago, Illinois.

## Name of Laboratory where fecal coliform samples were taken:

Microbac Laboratory located at 250 West 84th Drive Merrillville, Indiana 46410.

## **Documents taken from the facility:**

No documents were taken from R & S Farm.

**Table 13: Facility Sample Information** 

| Number | Name             | Date      | Time                               | Collector         | Photo #                            | Photographer | Method<br>of<br>Collectio<br>n | TKN<br>mg/L | Total<br>P mg/L | TDS<br>mg/L | TSS<br>mg/L | BOD-<br>5-day<br>mg/L | Ammonia<br>as<br>Nitrogen<br>mg/L | Nitrate<br>-<br>Nitrite<br>mg/L | E. coli<br>CFU/<br>100 mL |
|--------|------------------|-----------|------------------------------------|-------------------|------------------------------------|--------------|--------------------------------|-------------|-----------------|-------------|-------------|-----------------------|-----------------------------------|---------------------------------|---------------------------|
| S01    | Tile             | 3/10/2020 | 11:35<br>a.m.                      | Ben<br>Atkinson   | RIMG0052,<br>RIMG0053,<br>RIMG0054 | Ben Atkinson | Grab                           | 90.9        | 41.5            | 2260        | 78          | 1200                  | 39.6                              | 0.23                            | >2005                     |
| S02    | Pond             | 3/10/2020 | 11:20<br>a.m.                      | Ben<br>Atkinson   | RIMG0049<br>RIMG0050               | Ben Atkinson | Grab                           | 32.6        | 8.3             | 796         | 27          | 30                    | 20.2                              | 0.64                            | 530                       |
| S03    | Concrete<br>Tile | 3/10/2020 | 11:48<br>a.m.                      | Ben<br>Atkinson   | RIMG0062<br>RIMG0063               | Ben Atkinson | Grab                           | 18.0        | 4.34            | 796         | 43          | 88                    | 6.27                              | 17.1                            | >2005                     |
| В01    | R & S Farm       | 3/10/2020 | Approxi<br>mately<br>12:10<br>p.m. | Cheryl<br>Burdett | No Photos                          | NA           | Grab                           | U           | U               | Ü           | Ü           | Ü                     | Ŭ                                 | U                               | No blank<br>taken         |

TKN – total kjeldahl nitrogen (mg/L)

Total P- total phosphorus (mg/L)

TDS – total dissolved solids (mg/L)

TSS – total suspended solids (mg/L)

BOD 5-day – Biochemical Oxygen Demand 5 day

NA- Not applicable – no blank was done for *E.coli*.

### List of Attachments:

- A. Photo Log
- B. Labeled Aerial Photo of R & S Farm
- C. Sampling Results from Microbac Laboratory and Region 5 ASB Laboratory